

LITTLE COLORADO RIVER BASIN

09400910 FAY CANYON NEAR FLAGSTAFF, AZ

LOCATION.--Lat 35°08'06", long 111°37'48", in NW¹/₄NW¹/₄ sec.11, T.20 N., R.7 E., Coconino County, Hydrologic Unit 15020015, at Lake Mary Road within corporate limits of Flagstaff.

DRAINAGE AREA.--3.28 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1964	00-00-64	0.3	LT	1972	10-24-71	31	
1965	09-18-65	9.0		1973	10-00-72	10	ES
1966	12-30-65	87		1974	08-06-74	3.0	LT
1967	00-00-67	10	LT	1975	09-00-75	1.0	LT
1968	04-00-68	4.0		1976	00-00-76	10	ES
1969	01-25-69	10	LT	1977	08-09-77	18	
1970	09-05-70	3.0	ES	1979	00-00-79	70	
1971	08-15-71	2.0	ES	1980	02-19-80	29	

Magnitude and probability of instantaneous peak flow based on period of record 1964-77, 1979-80

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
8	36	66	98	128	182
Weighted skew	(logs) =	0.01			
Mean	(logs) =	0.96			
Standard dev.	(logs) =	0.56			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
72.2	2.4	7,000	73.0	3.0	19.6	2.1	4.1

